

Substitute for form 1449/PTO
(Revised 04/2003)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number 10/005,429
Filing Date December 3, 2001
First Named Inventor Vincent Sewalt
Group Art Unit 1638
Examiner Name To be assigned
Attorney Docket Number 035718/241421 (5718-119)

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear
J	58.	US-2002/0088025 A1	07-04-2002	MOLONEY <i>et al.</i>	
	59.	US-2003/0150010 A1	08-07-2003	CHO <i>et al.</i>	
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FOREIGN PATENT DOCUMENTS

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J	60.	WO 02/50289 A1	06-27-2002	VAN ROOIJEN <i>et al.</i>		

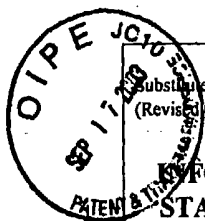
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Date
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6/17/04

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Attorney Docket Number	035718/241421 (5718-119)

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<i>J</i>	57	US-2003/135878 A1	07-17-2003	Cho <i>et al.</i>	
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Examiner Signature	<i>[Signature]</i>	Date Considered	6/17/04
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Substitute for form 1449A PTO
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Sheet 1 of 3

Complete if Known	
Application Number	10/005,429
Filing Date	December 3, 2001
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Group Art Unit	1638
Examiner Name	Not yet assigned
Attorney Docket Number	5718-119 (035718/241421)

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear
B	1	4,849,346	07-18-1989	Wood <i>et al.</i>	RECEIVED APR 23 2002 TECH CENTER 1600/2900
	2	4,904,602	02-27-1990	Pigiet <i>et al.</i>	
	3	5,646,016	07-08-1997	McCoy <i>et al.</i>	
	4	5,792,506	08-11-1998	Buchanan <i>et al.</i>	
	5	5,952,034	09-14-1999	Buchanan <i>et al.</i>	

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Examiner Initials	Cite No.	Foreign Patent Document Country Code - Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T	
B	6	EP 0 208 539 A2 ✓	01-14-1987	Repligen Corporation			
	7	EP 0 672 127 B1 ✓	09-20-1995	Buchanan <i>et al.</i>			
	8	EP 0 768 382 A2 ✓	04-16-1997	Hsp Research Institute, Inc.			
	9	EP 0 853 088 A2 ✕	07-15-1998	Oriental Yeast Co., Ltd.			
	10	EP 0 863 154 A1 ✕	09-09-1998	The Regents of the University of California			
	11	WO 95/01425 A1 ✕	01-12-1995	Novo Nordisk A/S			
	12	WO 96/03505 A1 >	02-08-1996	Institut National de la Recherche Agronomique			
	13	WO 99/20122 A1 >	04-29-1999	The Regents of the University of California			
	14	WO 00/14239 A2 ✕	03-16-2000	E.I. Du Pont de Nemours and Company			
	15	WO 00/36126 A1 ✕	06-22-2000	Novartis AG			
	16	WO 00/58352 A2 ✓	10-05-2000	The Regents of the University of California			
	17	WO 00-58453 A2 ✓	10-05-2000	The Regents of the University of California			
	18	WO 01-98509 A2 ✓	12-27-2001	Syngenta Participations AG			
	Examiner Signature	[Signature]			Date Considered	6/17/04	

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Substitute for form 1449B-PTO
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(Use as many sheets as necessary)

Sheet 2 of 3

Complete if Known

Application Number 10/005,429
Filing Date December 3, 2001
First Named Inventor Sewalt
Group Art Unit 1638
Examiner Name Not yet assigned
Attorney Docket Number 5718-119 (035718/241421)

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
B	19	BESSE, I., et al., "Thiocalsin: A Thioredoxin-Linked, Substrate-Specific Protease Dependent on Calcium," <i>Proc. Natl. Acad. Sci. USA</i> , April 1996, pp. 3169-3175, Vol. 93.
	20	BRÉHÉLIN, C., et al., "Characterization of Determinants for the Specificity of <i>Arabidopsis</i> Thioredoxins h in Yeast Complementation," <i>The Journal of Biological Chemistry</i> , October 2000, pp. 275(41), The American Society for Biochemistry and Molecular Biology, Inc., USA.
	21	BRUGIDOU, C., et al., "The <i>Nicotiana tabacum</i> Genome Encodes Two Cytoplasmic Thioredoxin Genes Which Are Differently Expressed," <i>Mol. Gen. Genet.</i> , 1993, pp. 285-293, Vol. 238, Springer-Verlag.
	22	BUCHANAN, B., et al., "Thioredoxin-Linked Mitigation of Allergic Responses to Wheat," <i>Proc. Natl. Acad. Sci. USA</i> , May 1997, pp. 5372-5377, Vol. 94, The National Academy of Sciences, USA.
	23	FAHRENDORF, T., et al., "Stress Responses in Alfalfa (<i>Medicago sativa</i> L.) XIX. Transcriptional Activation of Oxidative Pentose Phosphate Pathway Genes at the Onset of the Isoflavonoid Phytoalexin Response," <i>Plant Molecular Biology</i> , 1995, pp. 885-900, Vol. 28, Kluwer Academic Publishers, Belgium.
	24	GAUTIER, M., et al., "Characterization of Wheat Thioredoxin h cDNA and Production of an Active <i>Triticum aestivum</i> Protein in <i>Escherichia coli</i> ," <i>Eur. J. Biochem.</i> , 1998, pp. 314-324, Vol. 252, FEBS.
	25	GRAEVE, K., et al., "Purification, Characterization, and cDNA Sequence of Glucose-6-Phosphate Dehydrogenase from Potato (<i>Solanum tuberosum</i> L.)," <i>The Plant Journal</i> , 1994, pp. 353-361, Vol. 5(3), BIOS Scientific Publishers Ltd., Blackwell Scientific Publications Ltd., and the Society for Experimental Biology, USA.
	26	ISHIWATARI, Y., et al., "Thioredoxin h is One of the Major Proteins in Rice Phloem Sap," <i>Planta</i> , 1995, pp. 456-463, Vol. 195, Springer-Verlag.
	27	JACQUOT, J., et al., "Analysis and Manipulation of Target Enzymes for Thioredoxin Control," <i>Methods in Enzymology</i> , 1995, pp. 240-253, Vol. 252, Academic Press, Inc.
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	29	JIAO, J., et al., "Effect of Thioredoxin-Linked Reduction on the Activity and Stability of the Kunitz and Bowman-Birk Soybean Trypsin Inhibitor Proteins," <i>J. Agric. Food Chem.</i> , 1992, pp. 2333-2336, Vol. 40, American Chemical Society, USA.
	30	JIAO, J., et al., "Thioredoxin-Linked Changes in Regulatory Properties of Barley Alpha-Amylase/Subtilisin Inhibitor Protein," <i>Plant Physiol. Biochem.</i> , 1993, pp. 799-804, Vol. 31(6), Gautier-Villars.
31	KOBREHEL, K., et al., "Role of the NADP/Thioredoxin System in the Reduction of Alpha-Amylase and Trypsin Inhibitor Proteins," <i>The Journal of Biological Chemistry</i> , August 1991, pp. 16135-16140, Vol. 266(24), The American Society for Biochemistry and Molecular Biology, Inc., USA.	
32	KOBREHEL, K., et al., "Specific Reduction of Wheat Storage Proteins by Thioredoxin h," <i>Plant Physiol.</i> , 1992, pp. 919-924, Vol. 99.	

Examiner Signature

Date

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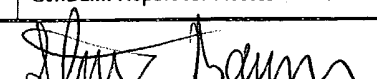
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		Group Art Unit	1638
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Sheet 3 of 3	Attorney Docket Number	5718-119 (035718/241421)	
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
	33	LOZANO, R., et al., "New Evidence for a Role for Thioredoxin <i>h</i> in Germination and Seedling Development," <i>Planta</i> , 1996, pp. 100-106, Vol. 200, Springer-Verlag GmbH & Co. KG, Berlin.	
	34	MEYER, Y., et al., "Plant Thioredoxins and Glutaredoxins: Identity and Putative Roles," <i>Trends in Plant Science</i> , October 1999, pp. 388-394, Vol. 4(10), Elsevier Applied Science, United Kingdom.	
	35	MOUAHEB, N., et al., "In Vivo Functional Discrimination Between Plant Thioredoxins by Haplogous Expression in the Yeast <i>Saccharomyces cerevisiae</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , March 1998, pp. 3312-3317, Vol. 95, The National Academy of Sciences, USA.	
	36	RIVERA-MADRID, R., et al., "Evidence for Five Divergent Thioredoxin <i>h</i> Sequences in <i>Arabidopsis thaliana</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , June 1995, pp. 5620-5624, Vol. 92.	
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55	GenBank Report for Accession No. AW679524, Direct Submission on April 14, 2000.		
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